

CLAIMS

What is claimed is:

- 5 1. A method comprising:
 - receiving a call origination message from an originating station;
 - processing the call origination message and encountering an intelligent-network trigger;

and

 - in response to the intelligent-network trigger, inviting the originating station and at least

10 one target station to participate in a packet-based real-time media session via a communication server.

 2. The method of claim 1, wherein the originating station is a mobile station, and wherein receiving the call origination message from the originating station comprises:

15 wirelessly receiving the call origination message via a common access channel from the mobile station.

 3. The method of claim 1, further comprising:
 - during the real-time media session, the communication server receiving media in an

20 incoming real-time media stream from the originating station and forwarding the media in an outgoing real-time media stream to the at least one target station.

4. The method of claim 3, wherein the media comprises voice, the incoming real-time media stream is a voice-over-packet stream, and the outgoing real-time media stream is also a voice-over-packet stream.

5. A method comprising:

receiving at a switch, from an originating station, an origination message carrying dialed digits, the dialed digits including (i) a session-initiation feature code and (ii) a target code indicating at least one target with which to establish a real-time media session via a communication server;

10 responsively signaling from the switch to a service controller;

signaling from the service controller to the communication server, pursuant to service logic at the service controller; and

the communication server responsively inviting the originating station and the at least one target to participate in the real-time media session via the communication server.

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6. The method of claim 5, wherein the originating station comprises a mobile station, and the switch comprises a mobile switching center, the method further comprising:

receiving the origination message wirelessly at a base station and forwarding the origination message from the base station to the switch.

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7. The method of claim 5, wherein the at least one target is a mobile station having a mobile identification number, and wherein the target code comprises the mobile identification number.

8. The method of claim 5, wherein the at least one target is a group, and wherein the target code comprises a group identifier.

5 9. The method of claim 5, wherein responsively signaling from the switch to the service controller comprises:

detecting the session-initiation feature code as an intelligent network trigger; and
responsively sending a signaling message to the service controller, the signaling message carrying (i) the target code and (ii) an originating station identifier.

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10. The method of claim 9, wherein the originating station is a mobile station, and the originating station identifier is a mobile identification number.

11. The method of claim 5, wherein signaling from the service controller to the 15 communications server comprises:

sending a signaling message from the service controller to the communications server, the signaling message carrying (i) the target code and (ii) an originating station identifier.

12. The method of claim 5, wherein inviting the originating station and the at least 20 one target to participate in the real-time media session via the communication server comprises:
sending session invitation messages to the originating station and the at least one target.

13. The method of claim 12, wherein the session invitation messages comprise Session Initiation Protocol (SIP) INVITE messages.

14. The method of claim 13, wherein sending the session invitation messages 5 comprise sending the session invitation messages to a proxy server for transmission to the originating station and the at least one target.

15. A communication device comprising:

a processor;
10 a wireless communication interface;
a PTT button;

wherein the processor is programmed (i) to receive a user request to initiate a PTT session with at least one target party and (ii) to responsively send to a network switch, via the wireless communication interface, a call origination message that carries a PTT dial code and a 15 target code indicative of the at least one target party.

16. A system comprising:

a wireless communication device;
a switch;
20 a service control function; and
a communication server,

wherein the wireless communication device is arranged (i) to receive a user request to initiate a packet-based real-time media session with at least one target party and (ii) to

responsively send to the switch via an air interface access channel a call origination message that carries a session-initiation feature code and a target code indicative of the at least one target party,

5 wherein, upon receipt of the call origination message, the switch is arranged to detect the session-initiation feature code as an intelligent-network trigger and to responsively send a first message to the service control function, providing the service control function with at least the target code and an identification of the wireless communication device,

10 wherein the service control function is arranged to receive the first message, pursuant to service logic, to send a second message to the communication server, providing the communication server with at least the target code and an identification of the wireless communication device, and

15 the communication server is arranged to receive the second message and to responsively invite the wireless communication device and the at least one target party to participate in the packet-based real-time media session via the communication server.

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17. The system of claim 16, wherein the packet-based real-time media session is a voice-over-packet session, and wherein the wireless communication device comprises a session-initiation button that a user can engage to provide the wireless communication device with the user request.

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18. The system of claim 16, wherein the communication server is arranged to invite the wireless communication device and the at least one target party to participate in the packet-

based real-time media session by sending to each of the wireless communication device and the at least one target party a Session Initiation Protocol (SIP) INVITE message.

19. The system of claim 16, wherein the communication server is further arranged to
5 receive an incoming voice-over-packet stream from the wireless communication device and to send an outgoing voice-over-packet stream to each of the at least one target party.

20. The system of claim 16, wherein each of the at least one target party is also a wireless communication device.

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